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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/01/2004

Ronald J. Paglierani Corning Incorporated 11 Oak Park MS 902 Bedford, MA 01730

 EXAMINER	
VALENTIN HIAND	

ART UNIT

PAPER NUMBER

2877

DATE MAILED: 03/01/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/007,826	11/09/2001	Graeme D. Maxwell	UK01-012 US	3592

TITLE OF INVENTION: ALIGNMENT OF ACTIVE OPTICAL COMPONENTS WITH WAVEGUIDES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/01/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notification		in block i, by (a) specifying	,		-,g :	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.		
7590 03/01/2004			have its own certifica	ite of mailing or transmission.	ent of formal drawing, must	
Ronald J. Pagliers Corning Incorporat 11 Oak Park MS 902			I hereby certify that States Postal Service addressed to the Ma	ertificate of Mailing or Tran this Fee(s) Transmittal is bein with sufficient postage for fin aith stop ISSUE FEE address PTO, on the date indicated be	g deposited with the United st class mail in an envelope above, or being facsimile low.	
Bedford, MA 0173	0					(Depositor's name)
						(Signature)
				<u> </u>		(Date)
APPLICATION NO.	FILING DATE	FIRST NAM	IED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/007,826 TITLE OF INVENTION: A	-11/09/2001 LIGNMENT OF ACTIVE (Graeme OPTICAL COMPONENTS W	D. Maxwe		UK01-012 US	3592
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PU	JBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330		\$300	\$1630	06/01/2004
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VALENTII	N, JUAN D	2877		385-014000		
PTO/SB/47; Rev 03-02 (Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless	on (or "Fee Address" Indica or more recent) attached. Us PRESIDENCE DATA TO E an assignee is identified be d to the USPTO or is being	e of a Customer E PRINTED ON THE PATE low, no assignee data will appropriate the coverage of	or agent printed. NT (print of pear on the r. Complete	patent. Inclusion of	ed, no name 3assignee data is only approprior a substitute for filing an ass	ate when an assignment has signment.
Please check the appropriate	assignee category or catego	ries (will not be printed on the	e patent);	individual 🔾	corporation or other private g	roup entity 🚨 government
4a. The following fee(s) are	enclosed:	4b. Payment	of Fee(s):			
☐ Issue Fee				ount of the fee(s) is e		
☐ Publication Fee		•	•	card. Form PTO-203		
Advance Order - # of	Copies	U The Di Deposit A	rector is h ccount Nu	ereby authorized by mber	charge the required fee(s), or (enclose an extra	credit any overpayment, to copy of this form).
Director for Patents is reque	sted to apply the Issue Fee a	nd Publication Fee (if any) or	to re-apply	any previously paid	issue fee to the application ide	entified above.
(Authorized Signature)		(Date)	-			-
other than the applicant; interest as shown by the re This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minus completed application for case. Any comments on suggestions for reducing the Patent and Trademark (22313-1450. DO NOT SEND TO: Commissioner Under the Paperwork Re	a registered attorney or ag cords of the United States Po- tition is required by 37 CFR by the public which is to f y is governed by 35 U.S.C. I tes to complete, including g m to the USPTO. Time wi the amount of time you this burden, should be sent Office, U.S. Department END FEES OR COMPLE for Patents, Alexandria, Vir	persons are required to resp	equired to occss) an illection is nitting the mand/oridual m and/or icer, U.S. Virginia DDRESS.			



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10/007,826	11/09/2001	Graeme D. Maxwell	UK01-012 US	3592
7:	590 03/01/2004		EXAM	INER
Ronald J. Paglier			VALENTIN	N, JUAN D
Corning Incorporate	ted		ART UNIT	PAPER NUMBER
MS 902			2877	
Bedford, MA 0173	30		DATE MAILED: 03/01/2004	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 417 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 417 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



	Application No.	Applicant(s)				
	10/007,826	MAXWELL, GRAEM	F D			
Notice of Allowability	Examiner	Art Unit	<u> </u>			
	Kevin C Kianni	2877				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
1. This communication is responsive to 11/09/2001 and 2/05/	<u>2004</u> .					
2. \boxtimes The allowed claim(s) is/are <u>1-8</u> .						
3. $igotimes$ The drawings filed on <u>09 November 2001</u> are accepted by	the Examiner.					
 4. ☐ Acknowledgment is made of a claim for foreign priority una) a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		ion from the			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the rec	uirements			
5. A SUBSTITUTE OATH OR DECLARATION must be submi			OTICE OF			
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.					
(a) including changes required by the Notice of Draftspers		948) attached				
1) hereto or 2) to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing he header according to 37 CFR 1.121(ngs in the front (not the d).	back) of			
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)						
1. Notice of References Cited (PTO-892)	5. Notice of Informal P		D-152)			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary Paper No./Mail Dat					
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 3 	8), 7. \(\simex\) Examiner's Amendr	ment/Comment				
4. Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Stateme	ent of Reasons for Allo	wance			
of Biological Material	9. Other					

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Paglirani on 2/05/2004 for purpose of eliminating the functional language/limitations of the claims and thereby having the claimed invention in a condition of allowance. In a telephone conversation on 2/06/2004, Mr. P. Alden agreed with the examiner to eliminate an extra phrase 'Fig. 5' at the bottom of the abstract. The amendment is as follows:

In Claim 1, page 9:

Line 9, remove the limitation 'for accommodating the active optical component';

Lines 14 and 15, remove the limitation 'being adapted';

Lines 17-18, remove the limitation 'when the waveguide chip and second chip are connected together with the active optical component located within the cavity';

Line 12, remove ',' and insert the limitation 'and for insertion into said cavity'.

In Claim 7, page 10:

Lines 13 and 14 remove the limitation 'being adapted'.

In abstract, page 11:

Line 18, remove the phrase 'Fig. 5'.

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Art Unit: 2877

Reason for Allowance

2. Claims are allowed for the following reasons:

The instant application is deemed to be directed to a nonobvious improvement over the invention patented in Pat. No. 6,477,286. The improvement comprises as follows:

Claims are allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious a second chip for carrying the active optical component and for insertion into said cavity, wherein the waveguide chip comprises a locating stop and the second chip has first and second reference regions formed thereon, the first reference region to locate the active optical component, and the second reference region to engage the surface of the cladding layer and the locating stop of the waveguide chip in order to provide alignment of the waveguide with the active optical component chip in combination with the rest of the limitations of the base claim

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2877

Citation of Relevant Prior Art

3. Prior art made of record and not relied upon is considered pertinent to applicant's disclosure. In accordance with MPEP 707.05 the following references are pertinent in rejection of this application since they provide substantially the same information disclosure as this patent does. These references are:

Ouchi US 6477286

Murali 6650817

De Dobbelaere et al. 5764820

Yoshimura et al. 6343171

Ee et al. 6118917

Shaw et al. 6456766

Murali 6633707

These references are cited herein to show the relevance of the apparatus/methods taught within these references as prior art.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Cyrus Kianni whose telephone number is (571) 272-2417.

Page 5

The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 6:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font, can be reached at (571) 272-2415.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9306 (for formal communications intended for entry)

or:

Hand delivered responses should be brought to Crystal Plaza 4, 2021 South Clark Place, Arlington, VA., Fourth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956.

K. Cyrus Kianni Patent Examiner Group Art Unit 2877

February 6, 2004

Frank Font

Supervisory Patent Examiner

Group Art Unit 2877